



# JIFX

Joint Interagency Field Experimentation

## JIFX 25-4

11 – 15 August 2025

NPS Field Laboratory at Camp Roberts

Event Focus Area: **Human Machine Integration**

### **Overview:**

As technology becomes increasingly integrated into all facets of operations, the effectiveness of Human Machine Integration (HMI) is paramount for mission success. The JIFX program invites innovators, technologists, and field experts to collaborate on advancing HMI solutions that enhance decision-making, operational efficiency, and user experience through seamless interaction between humans and machines.

### **Why Human Machine Integration?**

In fast-paced, data-rich environments, effective HMI allows operators to better leverage complex systems, process information quickly, and make accurate, informed decisions. Advances in HMI technology enable adaptive interfaces, intuitive controls, and cognitive support systems that empower personnel while reducing workload and fatigue.

1. **Collaborative Robots and Autonomous Systems**
2. **Augmented Reality (AR) and Virtual Reality (VR) for Enhanced Situational Awareness**
3. **Wearable and Biometric Systems**
4. **Intuitive User Interfaces**
5. **AI-Assisted Decision Support Systems**
6. **Voice and Gesture Control**

**Who Should Get Involved?** This focus area is ideal for HMI researchers, defense agencies, tech developers, behavioral scientists, interface designers, and field operators. Anyone invested in improving synergy between humans and machines, especially in complex, dynamic environments, is encouraged to contribute.

### **More Info**

Visit: [www.nps.edu/fx](http://www.nps.edu/fx)

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**Submissions Due by 05 June 2025**